

USE OF A MAGNESIA-ZIRCONIA BRICK

(NEW)

PATENT CLAIMS

What is claimed is:

1. A use of a magnesia-zirconia brick, which comprises 5 to 35 weight-percent  $ZrO_2$  and 65 to 95 weight-percent  $MgO$  as well as at most 5 weight-percent other components and has a  $SiO_2$  content  $< 1.0$  weight-percent, in regenerator chambers of glass melting furnaces, which are at least partially operated using a reducing atmosphere.
2. The use according to Claim 1, wherein the brick has a  $CaO$  content  $< 2.0$  weight-percent.
3. The use according to Claim 1, wherein the brick contains at most 2% other components.
4. The use according to Claim 1, wherein the open porosity of the brick is 11 to 15 volume-percent.
5. The use according to Claim 1, wherein the apparent density of the brick after firing is 3.20 to 3.60  $g/cm^3$ .
6. The use according to Claim 1, wherein the cold compression strength of the brick after firing is 50 to 150  $N/mm^2$ .